

# INTERNATIONAL SEARCH REPORT

International Application No. **PCT/GB 03/02422**

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 F16K17/38 F16K31/385

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	6B 811 022 A (ALBERT JOLY) 25 March 1959 (1959-03-25) page 1, line 62 -page 2, line 25; figure 1	1,7,14, 21,24
A	FR 2 334 032 A (DUNLOP LTD) 1 July 1977 (1977-07-01) page 4, line 35 -page 7, line 31; figures	1
A	FR 1 147 137 A (SPENGLER RENE;ROTH ROGER) 19 November 1957 (1957-11-19) page 1, right-hand column, line 16 -page 4, right-hand column, line 17; figures	1,2,6
A	US 4 239 153 A (CADWELL RONALD G ET AL) 16 December 1980 (1980-12-16) column 5, line 66 -column 6, line 3	1,3

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

8 October 2003

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15/10/2003

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Information on patent family members

International Application No.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 811022	A	25-03-1959	NONE	
FR 2334032	A	01-07-1977	FR 2334032 A1	01-07-1977
FR 1147137	A	19-11-1957	NONE	
US 4239153	A	16-12-1980	AT 6314 T	15-03-1984
			AU 525542 B2	11-11-1982
			AU 5035379 A	03-07-1980
			BR 7906766 A	14-10-1980
			CA 1148517 A1	21-06-1983
			DE 2966691 D1	22-03-1984
			EP 0013097 A2	09-07-1980
			ES 484425 A1	16-04-1980
			JP 55092910 A	14-07-1980
			MX 147680 A	04-01-1983
			PT 70293 A	01-11-1979
			TR 21494 A	12-07-1984